## SECTION – B
## SHORT QUESTION

Q-2. What is contribution of Al-Haitnem in the field of Physics.

Q-3. Explain the first condition of Equilibrium.

Q-4. State and explain the Newton's Law of Gravitation.

Q-5. Derive the equation: $S = V_i t + \frac{1}{2} a t^2$

Q-6. The radius of hydrogen atom is $0.53 \times 10^{-10}$m. Convert it in cm, mm, and nm.

Q-7. What are rectangular components of a vector? How are they determined?

Q-8. What is energy? Name the different forms of energy.

Q-9. Define heat capacity and specific heat capacity.

Q-10. Explain torque or moment of force.

Q-11. Describe main causes of friction. Give the methods of reducing friction.

Q-12: A proton of mass $1.67 \times 10^{-27}$ kg is moving in a circle of radius 100 cm. an electromagnet applies a force of $1 \times 10^{-12}$ N directed towards the centre of the circle. What is the velocity of the proton?

Q-13: Differentiate between mass and weight.